

Title (en)

Wavelength tunable monomode laser source with self-aligning external cavity

Title (de)

Wellenlängenabstimmbare Monomodlaserquelle mit selbstausrichtendem externen Resonator

Title (fr)

Source laser monomode accordable en longueur d'onde à cavité externe autoalignée

Publication

EP 0917261 A1 19990519 (FR)

Application

EP 98403194 A 19950913

Priority

- EP 95402073 A 19950913
- FR 9410925 A 19940913

Abstract (en)

The retro reflecting dispersive mechanism has a plane network and orthogonal dihedral reflector which have adjustments allowing variation in the resonant cavity length formed.

Abstract (fr)

La présente invention concerne une source laser monomode accordable en longueur d'onde, à cavité externe autoalignée, comportant : une cavité résonnante ayant une face de sortie partiellement réfléchissante (331) et un dispositif dispersif rétro réfléchissant (31, 39), définissant un axe de collimation principal (351) et un axe de collimation secondaire (381), un guide d'onde (33) amplificateur placé à l'intérieur de la cavité résonnante. Le dispositif dispersif rétro réfléchissant comporte un réseau plan (31) ayant des plans de dispersion et un dièdre réflecteur orthogonal (39) dont l'arête (391) est parallèle au plan de dispersion du réseau comprenant les axes de collimation (351, 352). <IMAGE>

IPC 1-7

H01S 3/085; **H01S 3/081**; **H01S 3/1055**; **H01S 3/105**

IPC 8 full level

H01S 3/081 (2006.01); **H01S 5/14** (2006.01); **H01S 3/1055** (2006.01)

CPC (source: EP US)

H01S 3/0812 (2013.01 - EP US); **H01S 5/143** (2013.01 - EP US); **H01S 3/105** (2013.01 - EP US); **H01S 3/1055** (2013.01 - EP US); **H01S 5/02325** (2021.01 - EP US)

Citation (search report)

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